

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°38'05", long 74°41'12" referenced to North American Datum of 1983, Bedminster Township, Somerset County, NJ, Hydrologic Unit 02030105, on downstream left wingwall of bridge on Walsh Road at Burnt Mills, 0.2 mi upstream from mouth, and 4.4 mi southwest of Far Hills.

DRAINAGE AREA.--100 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1964, 1973, 1975-78, 1981 to current year. Annual maximum, water years 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 74 ft above NAVD of 1988, from topographic map.

REMARKS.--Radio stage telemetry at station. Peak stages at this gage maybe affected by backwater from the North Branch Raritan River.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 16.28 ft, Sep 16, 1999.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height, 90.0 ft (from high-water mark, elevation above NGVD of 1929), Jul 7, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.21 ft, Mar 8 at 1930.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Date	Discharge, in ft ³ /s
Nov 7, 2007	88.8
Feb 11, 2008	75.8
May 14, 2008	135
Aug 7, 2008	146

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1976 to current year.

REMARKS.--Cooperative Network Site Descriptor: Watershed Integrator, NJ Department of Environmental Protection Watershed Management Area 8.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Instantaneous discharge, ft ³ /s (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)
Nov 07...	1030	89	1.9	.121	.093	761	13.7	113	7.7	300	10.0	6.8	86
Feb 11...	1110	76	4.3	.081	.063	767	16.5	113	7.3	308	-6.0	.1	84
May 14...	0940	135	3.6	.154	.119	761	10.8	102	7.6	264	20.0	12.4	78
Aug 07...	1100	146	3.6	.043	.032	752	9.2	111	8.1	193	21.5	24.3	61

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO ₂ (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 07...	20.7	8.27	2.09	19.3	61	40.1	E.08	14.5	17.6	E165	191	3	.23
Feb 11...	20.6	8.03	1.60	25.6	51	46.8	<.12	11.8	17.2	E168	172	<1	.16
May 14...	19.2	7.32	1.33	19.5	56	35.3	E.07	10.9	12.2	E143	160	1	.28
Aug 07...	14.7	5.99	1.28	12.2	47	20.5	E.10	5.0	12.2	E101	104	3	.21

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)
Nov 07...	.015	1.22	E.02	1.5	E1.5	.057	.064	.069	.2	<.04	.2	3.2	31
Feb 11...	E.008	1.20	E.04	1.4	E1.4	.019	.020	.038	.4	<.04	.4	2.3	25
May 14...	.023	.88	.05	1.2	1.2	.036	.043	.061	.4	<.04	.4	3.5	25
Aug 07...	.012	.26	E.02	.46	E.49	.026	.029	.042	.2	<.04	.2	2.6	20